

## Programming The Universe A Quantum Computer Scientist Takes On The Cosmos

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### Programming The Universe A Quantum

This is the intriguing assertion of Seth Lloyd in his new book, Programming the Universe: A Quantum Computer Scientist Takes On the Cosmos. "The Universe is a quantum computer. ...What does the universe compute? It computes itself. The universe computes its own behavior. As soon as the universe began, it began computing."

### Programming the Universe: A Quantum Computer Scientist ...

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### Programming the Universe: A Quantum Computer Scientist ...

The quantum-computational nature of the universe dictates that the details of the future are intrinsically unpredictable. They can be computed only by a computer the size of the universe itself. Otherwise, the only way to discover the future is to wait and see what happens.

### Programming the Universe: A Quantum Computer Scientist ...

The main thesis of the book is important, though not new. It's that the universe can usefully be regarded as a computer - a quantum computer - whose function is to compute its own behavior. That's sort of a tautology, like saying that a city (for example) computes how it develops.

### Programming the Universe: A Quantum Computer Scientist ...

That is, the universe computes, and because the universe is governed by the laws of quantum mechanics, it computes in an intrinsically quantum-mechanical fashion; its bits are quantum bits. The history of the universe is, in effect, a huge and ongoing quantum computation. The universe is a quantum computer.

### 9780224064385: Programming the Universe: A Quantum ...

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### Programming the Universe: A Quantum Computer Scientist ...

Programming the Universe: A Quantum Computer Scientist Takes On the Cosmos is a 2006 popular science book by Seth Lloyd, professor of mechanical engineering at the Massachusetts Institute of Technology. The book proposes that the universe is a quantum computer, and advances in the understanding of physics may come from viewing entropy as a phenomenon of information, rather than simply thermodynamics. Lloyd also postulates that the universe can be fully simulated using a quantum computer; however

### Programming the Universe - Wikipedia

Is the universe actually a giant quantum computer? According to Seth Lloyd, the answer is yes. All interactions between particles in the universe, Lloyd explains, convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately?

### Buy Programming the Universe: A Quantum Computer Scientist ...

It is only in the last years, however, with the discovery and development of quantum computers, that scientists have gained a fundamental understanding of just how that information is registered and processed. Building on recent breakthroughs in quantum computation, Seth Lloyd shows how the universe itself is a giant computer.

### Programming The Universe: A Quantum Computer Scientist ...

Programming the Universe: A Quantum Computer Scientist Takes on the Cosmos by Seth Lloyd (Paperback, 2007) Be the first to write a review.

**Programming the Universe: A Quantum Computer Scientist ...**

According to professor Seth Lloyd, the answer is yes: "Everything in the universe is made of chunks of information called bits." A researcher in Mechanical Engineering at MIT, Lloyd is one of the...

**Is the Universe Actually a Giant Quantum Computer?**

Artyam Yurov and Valerian Yurov, the IKBFU researchers behind the aforementioned study, posit that everything in the universe, including the universe itself, should be viewed as a quantum object....

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